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(54) Title: STABLE PROTEIN:PHOSPHOLIPID COMPOSITIONS AND METHODS

### (57) Abstract

The invention relates to stable compositions of proteins and related methods wherein a protein capable of transitioning into the molten globular state is contacted with a negatively charged lipid vesicle, thereby stabilizing the protein against thermally-induced aggregation, denaturation, and loss of activity. The protein:phospholipid complex directly stabilizes the secondary and tertiary structure of the protein, and the compositions are useful in high temperature formulations and in novel delivery vehicles.

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